

input file Flh14273new; Output File Flh14273tra

Sequence length 1743

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ATG TCC OCT GAA TGC GCG CGG GCA GCG		27
G D A P L R S L E Q A N R T R F P F F S		29
GGC GAC GCG CCC TTG CGC AGC CTG GAG CAA GCC AAC CGC ACC CGC TTT CCC TTC TTC TCC		87
D V K G D H R L V L A A V E T T V E V L		49
GAC GTC AAG GGC GAC CAC CGG CTG GTG CTG GCC GCG GTG GAG ACA ACC GTG CTG GTG CTC		147
I F A V S L L G N V C A L V L V A R R R		69
ATC TTT GCA GTG TCG CTG CTG GGC AAC GTG TGC GCC CTG GTG CTG GTG GCG CGC CGA CGA		207
R R G A T A C L V L N L F C A D L L F I		89
CGC CGC GGC GCG ACT GCC TGC CTG GTA CTC AAC CTC TTC TGC GCG GAC CTG CTC TTC ATC		267
S A I P L V L A V R W T E A W L L G P V		109
AGC GCT ATC CCT CTG GTG CTG GCC GTG CGC TGG ACT GAG GCG TGG CTG CTG GGC CCC GTT		327
A C H L L F Y V M T L S G S V T I L T L		129
GCC TGC CAC CTG CTC TTC TAC GTG ATG ACG CTG AGC GGC AGC GTC ACC ATC CTC ACG CTG		387
A A V S L E R M V C I V H L Q R G V R G		149
GCC GCG GTC AGC CTG GAG CGC ATG GTG TGC ATC GTG CAC CTG CAG CGC GGC GTG CGG GGT		447
P G R R A R A V L L A L I W G Y S A V A		169
CCT GGG CGG CGG GCG CGG GCA GTG CTG CTG GCG CTC ATC TGG GGC TAT TCG GCG GTC GCC		507
A L P L C V F F R V V P Q R L P G A D Q		189
GCT CTG CCT CTC TGC GTC TTC TTT CGA GTC GTC CCG CAA CGG CTC CCC GGC GCC GAC CAG		567
E I S I C T L I W P T I P G E I S W D V		209
GAA ATT TCG ATT TGC ACA CTG ATT TGG CCC ACC ATT OCT GGA GAG ATC TCG TGG GAT GTC		627
S F V T L N F L V P G L V I V I S Y S K		229
TCT TTT GTT ACT TTG AAC TTC TTG GTG CCA GGA CTG GTC ATT GTG ATC AGT TAC TCC AAA		687
I L Q I T K A S R K R L T V S L A Y S E		249
ATT TTA CAG ATC ACA AAG GCA TCA AGG AAG AGG CTC ACG GTA AGC CTG GCC TAC TCG GAG		747
S H Q I R V S Q Q D F R L F R T L F L L		269
AGC CAC CAG ATC CGC GTG TCC CAG CAG GAC TTC CGG CTC TTC CGC ACC CTC TTC CTC CTC		807
M V S F F I M W S P I I I T I L L I L I		289
ATG GTC TCC TTC TTC ATC ATG TGG AGC CCC ATC ATC ATC ACC ATC CTC CTC ATC CTG ATC		867
Q N F K Q D L V I W P S L F F W V V A F		309
CAG AAC TTC AAG CAA GAC CTG GTC ATC TGG CCG TCC CTC TTC TTC TGG GTG GTG GCC TTC		927

Figure 1A

T F A N S A L N P I L Y N M T L C R N E 329  
ACA TTT GCT AAT TCA GGC CTA AAC CCC ATC CTC TAC AAC ATG ACA CTG TGC AGG AAT GAG 987

W K K I F C C F W F P E K G A I L T D T 349  
TGG AAG AAA ATT TTT TGC TGC TTC TGG TTC OCA GAA AAG GGA GCC ATT TTA ACA GAC ACA 1047

S V K R N D L S I I S G \* 362  
TCT GTC AAA AGA AAT GAC TTG TCG ATT ATT TCT GGC TAA 1086

TTTTTCTTTATAGCCGAGTTTCTCACACCTGGCGAGCTGTGGCATGCTTTTAAACAGAGTTCA<sup>TT</sup>TCCAGTACCCTCCA

TCAGTGCACCTGCTTTAAGAAAATGAACCTATGCAAATAGACATOCACAGCGTGGTAAATTAAGGGGTGATCAACAA

GTTTCATAATATTTTCCCTTTATAAAAGGATTTGTTGGOCAGGTGCAGTGGTTCATGCTGTAATCCAGCAGTTTGGG

AGGCTGAGGTGGGTGGATCACTGAGGTGAGGAGTTGAGACCAACCTGACCAACATGGTGAGACCCCGTCTCTACTA

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CTCTTGAACTGGGAGGCAGAGGTTGCAGTGAGCCGAGATCGTGCCATTGCACTCCAACCAGGGCAACAAGAGTGAAAC

TCCATCTTAAAAAAAAAAAAAAAAAGATTGTTATGGGTTCTTTTAAATGTGAAC<sup>TT</sup>TTTTAGTGTGTTTGAATATG

ATCAAATTTAATAAATATTTATTTATGACTGTTTCAAGCAAAAAAAAAAAAAAAAAAGGGGGG

10085181.022602

Figure 1B

Input file 14273a; Outp File 14273atra  
Sequence length 1:

TTGCCAAGCTCAGOGTAAGGCTCTTCCACTGCAATCTCACAGAGGGGTTTCATGGAGTGCITCACACCATCAGTGAACCA  
CTCCAGACTTGTCCGGCTTTACCGAATCTTCACAGGGAGTGGATGACCCCTCTTGACAGCCACGAGGGGGGAGCTC

CGCCATCTTCCCGGACGCGTGGGCGGGGCGCCCGGC	ATG	TCC	CCT	GAG	TGT	GCA	CAG	ACG	ACG	GGC	10									
											30									
P	G	P	S	H	T	L	D	Q	V	N	R	T	H	F	P	F	F	S	D	30
OCT	GGT	CCC	TGG	CAC	ACC	CTG	GAC	CAA	GTC	AAT	CGC	ACC	CAC	TTC	CCT	TTC	TTC	TGG	GAT	90
V	K	G	D	H	R	L	V	L	S	V	V	E	T	T	V	L	G	L	I	50
GTC	AAG	GGC	GAC	CAC	CGG	TTG	GTG	TTG	AGC	GTC	GTG	GAG	ACC	ACC	GTT	CTG	GGA	CTC	ATC	150
F	V	V	S	L	L	G	N	V	C	A	L	V	L	V	A	R	R	R	R	70
TTT	GTC	GTC	TCA	CTG	CTG	GGC	AAC	GTG	TGT	GCT	CTA	GTG	CTG	GTG	GCG	CGC	CGT	CGG	CGC	210
R	G	A	S	A	S	L	V	L	N	L	F	C	A	D	L	L	F	T	S	90
OGT	GGG	GCG	TCA	GCC	AGC	CTG	GTG	CTC	AAC	CTC	TTC	TGC	GCG	GAT	TTG	CTC	TTC	ACC	AGC	270
A	I	P	L	V	L	V	V	R	W	T	E	A	W	L	L	G	P	V	V	110
GCC	ATC	CCT	CTA	GTG	CTC	GTC	GTG	CGC	TGG	ACT	GAG	GCC	TGG	CTG	TTG	GGG	CCC	GTC	GTC	330
C	H	L	L	F	Y	V	M	T	M	S	G	S	V	T	I	L	T	L	A	130
TGC	CAC	CTG	CTC	TTC	TAC	GTG	ATG	ACA	ATG	AGC	GGC	AGC	GTC	ACG	ATC	CTC	ACA	CTG	GCC	390
A	V	S	L	E	R	M	V	C	I	V	R	L	R	R	G	L	S	G	P	150
GCG	GTC	AGC	CTG	GAG	CGC	ATG	GTG	TGC	ATC	GTG	CGC	CTC	CGG	CGC	GGC	TTG	AGC	GGC	CCG	450
G	R	R	T	Q	A	A	L	L	A	F	I	W	G	Y	S	A	L	A	A	170
GGG	CGG	CGG	ACT	CAG	GCG	GCA	CTG	CTG	GCT	TTC	ATA	TGG	GGT	TAC	TCG	GCG	CTC	GCC	GCG	510
L	P	L	Y	I	L	F	R	V	V	P	Q	R	L	P	G	G	D	Q	E	190
CTG	CCC	CTC	TAC	ATC	TTG	TTC	CGC	GTG	GTC	CCG	CAG	CGC	CTT	CCC	GGC	GGG	GAC	CAG	GAA	570
I	P	I	C	T	L	D	W	P	N	R	I	G	E	I	S	W	D	V	F	210
ATT	CCG	ATT	TGC	ACA	TTG	GAT	TGG	CCC	AAC	CGC	ATA	GGA	GAA	ATC	TCA	TGG	GAT	GTG	TTT	630
F	E	T	L	N	F	L	V	P	G	L	V	I	V	I	S	Y	S	K	I	230
TTT	GAG	ACT	TTG	AAC	TTC	CTG	GTG	CCG	GGA	CTG	GTC	ATT	GTG	ATC	AGT	TAC	TCC	AAA	ATT	690
L	Q	I	T	K	A	S	R	K	R	L	T	L	S	L	A	Y	S	E	S	250
TTA	CAG	ATC	ACG	AAA	GCA	TCG	CGG	AAG	AGG	CTT	ACG	CTG	AGC	TTG	GCA	TAC	TCT	GAG	AGC	750
H	Q	I	R	V	S	Q	Q	D	Y	R	L	F	R	T	L	F	L	L	M	270
CAC	CAG	ATC	CGA	GTG	TCC	CAA	CAA	GAC	TAC	CGA	CTC	TTC	CGC	ACG	CTC	TTC	CTG	CTC	ATG	810
V	S	F	F	I	M	W	S	P	I	I	I	T	I	L	L	I	L	I	Q	290
GTT	TCC	TTC	TTC	ATC	ATG	TGG	AGT	CCC	ATC	ATC	ATC	ACC	ATC	CTC	CTC	ATC	TTG	ATC	CAA	870
N	F	R	Q	D	L	V	I	W	P	S	L	F	F	W	V	V	A	F	T	310
AAC	TTC	CGG	CAG	GAC	CTG	GTC	ATC	TGG	CCA	TCC	CTT	TTC	TTC	TGG	GTG	GTG	GCC	TTC	ACG	930
F	A	N	S	A	L	N	P	I	L	Y	N	M	S	L	F	R	N	E	W	330
TTT	GCC	AAC	TCT	GCC	CTA	AAC	CCC	ATA	CTG	TAC	AAC	ATG	TCG	CTG	TTC	AGG	AAC	GAA	TGG	990
R	K	I	F	C	C	F	F	F	P	E	K	G	A	I	F	T	D	E	S	350
AGG	AAG	ATT	TTT	TGC	TGC	TTC	TTT	TTT	CCA	GAG	AAG	GGA	GCC	ATT	TTT	ACA	GAT	ACG	TCT	1050
V	R	R	N	D	L	S	V	I	S	S	*									362
GTC	AGG	CGA	AAT	GAC	TTG	TCT	GTT	ATT	TCC	AGC	TAA									1085

CTAGCCTCTGGTGCCAGGTGAACCAACGGTGTGCATGTAAGGGAGTTAACTTCAAGGAAAGCCACCACTGCGCCCTGCG  
TTTAAAAATACCGAGCTTCCAACAGCAGGCATCTAAGGAGCCAGCAAATTAAGGAATGATGCTCAGTATAAAAAATATT  
TTTCCTTAAAAAGAACTTTCTATGGGTTCCTTTTGTGAACCTTTTAAAGTGTGTTTGTAAATATGATCTAGTTAATAAAATT  
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Figure 2

Expression of 14273 in Human Tissues  
Pathology Phase I (subset)

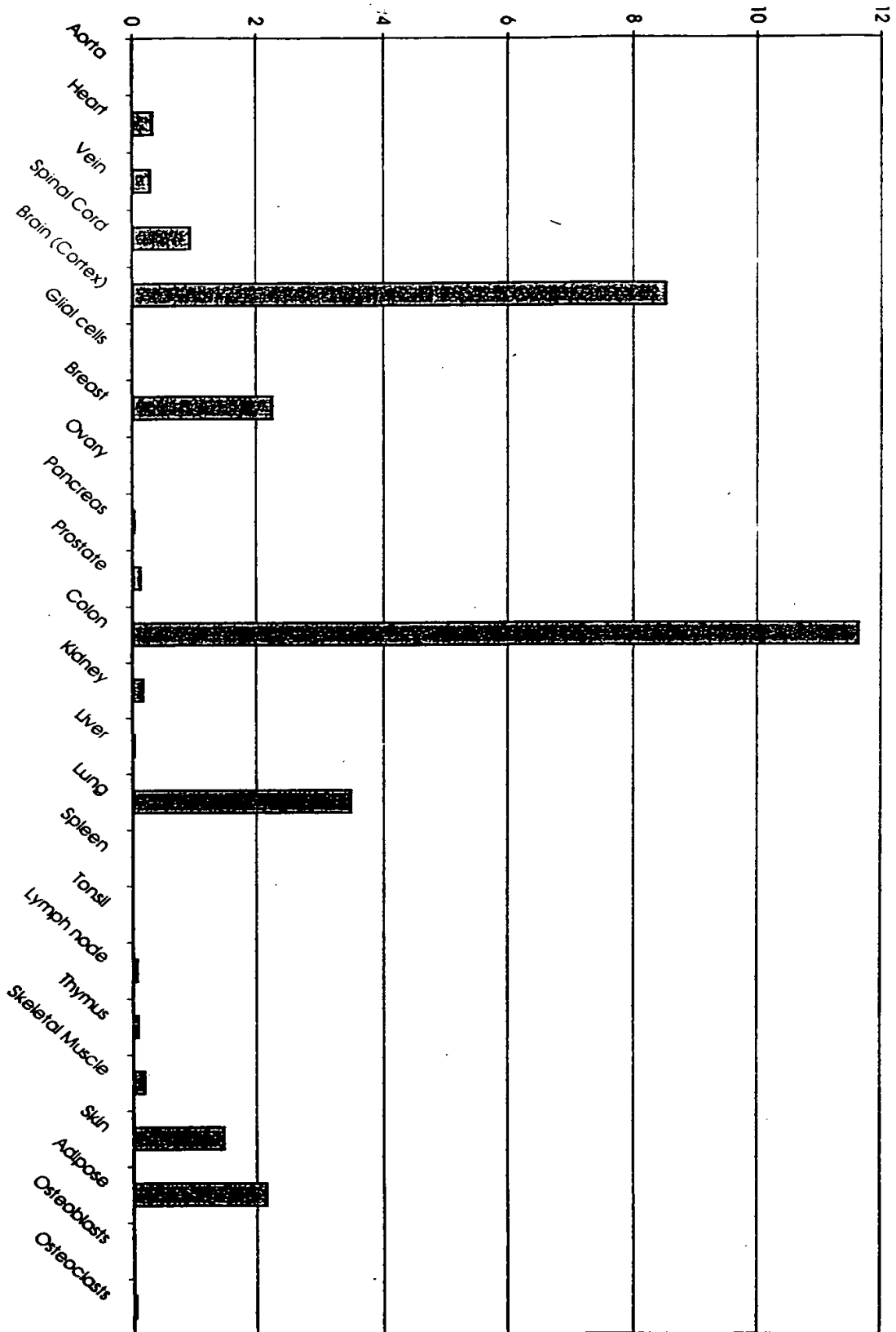


Figure 3A

209220-12198001

Expression of 14273 in Human Tissues  
Metabolic Phase I

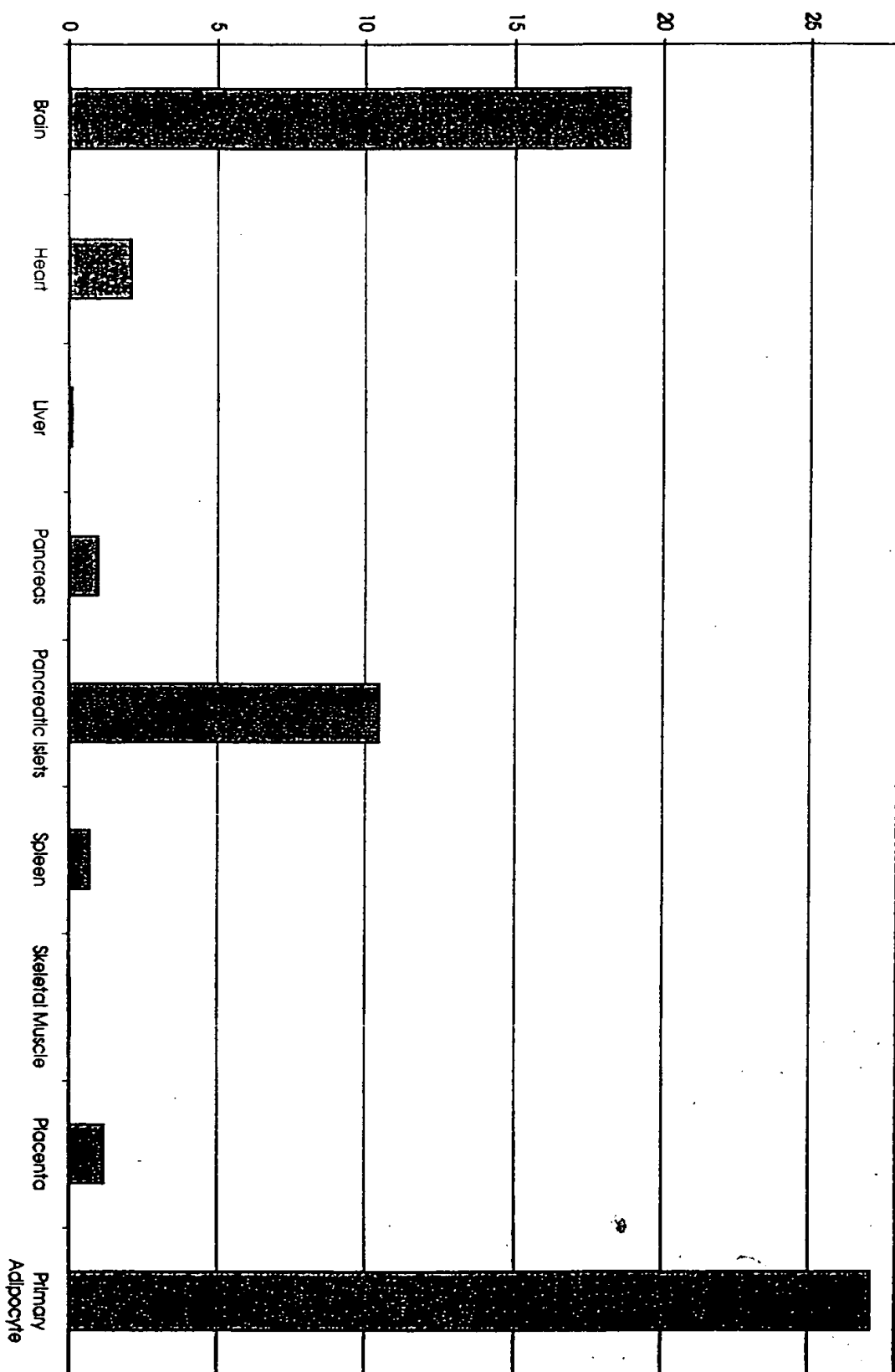


Figure 3B

20922018198001

Expression of 14273 in Human Tissues  
Metabolic Phase II



Figure 3C

209220-1819800T

# Expression of 14273 in Normal Mouse Tissues

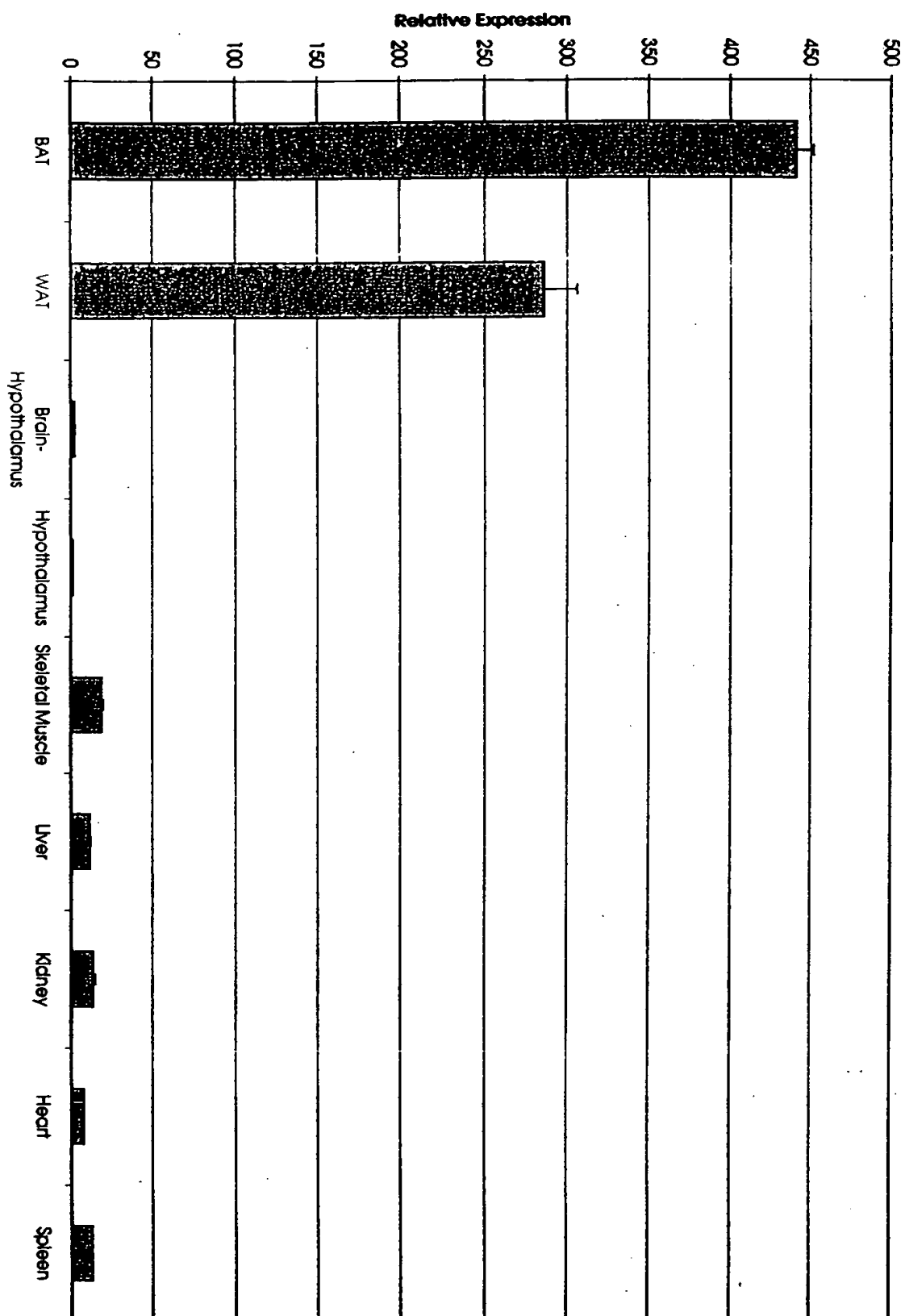
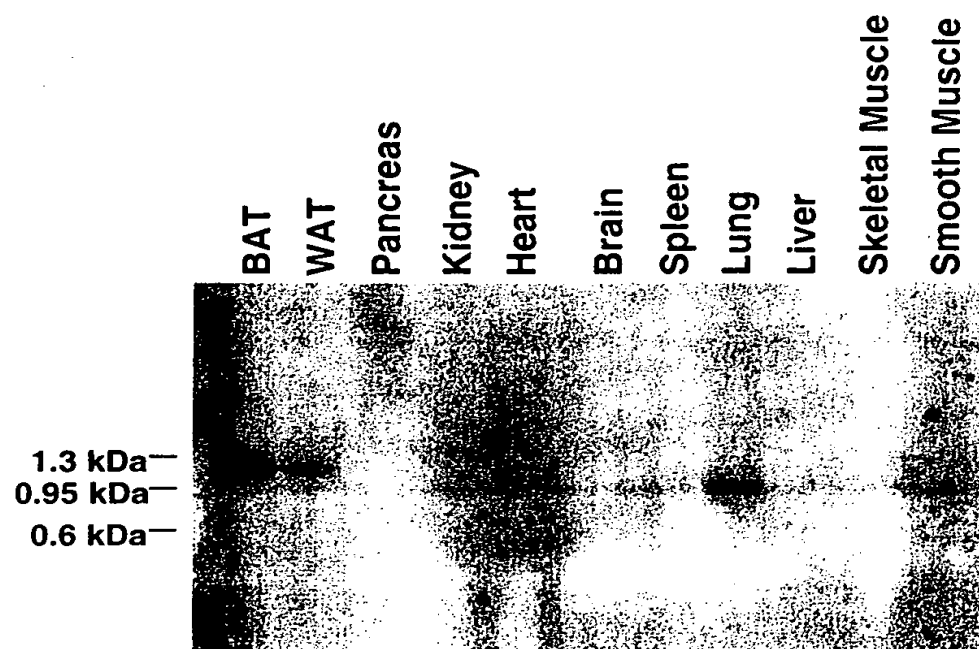


Figure 4

## Expression of 14273 in Normal Mouse Tissues



**Figure 5**



## Regulation of 14273 Expression by Cold Exposure

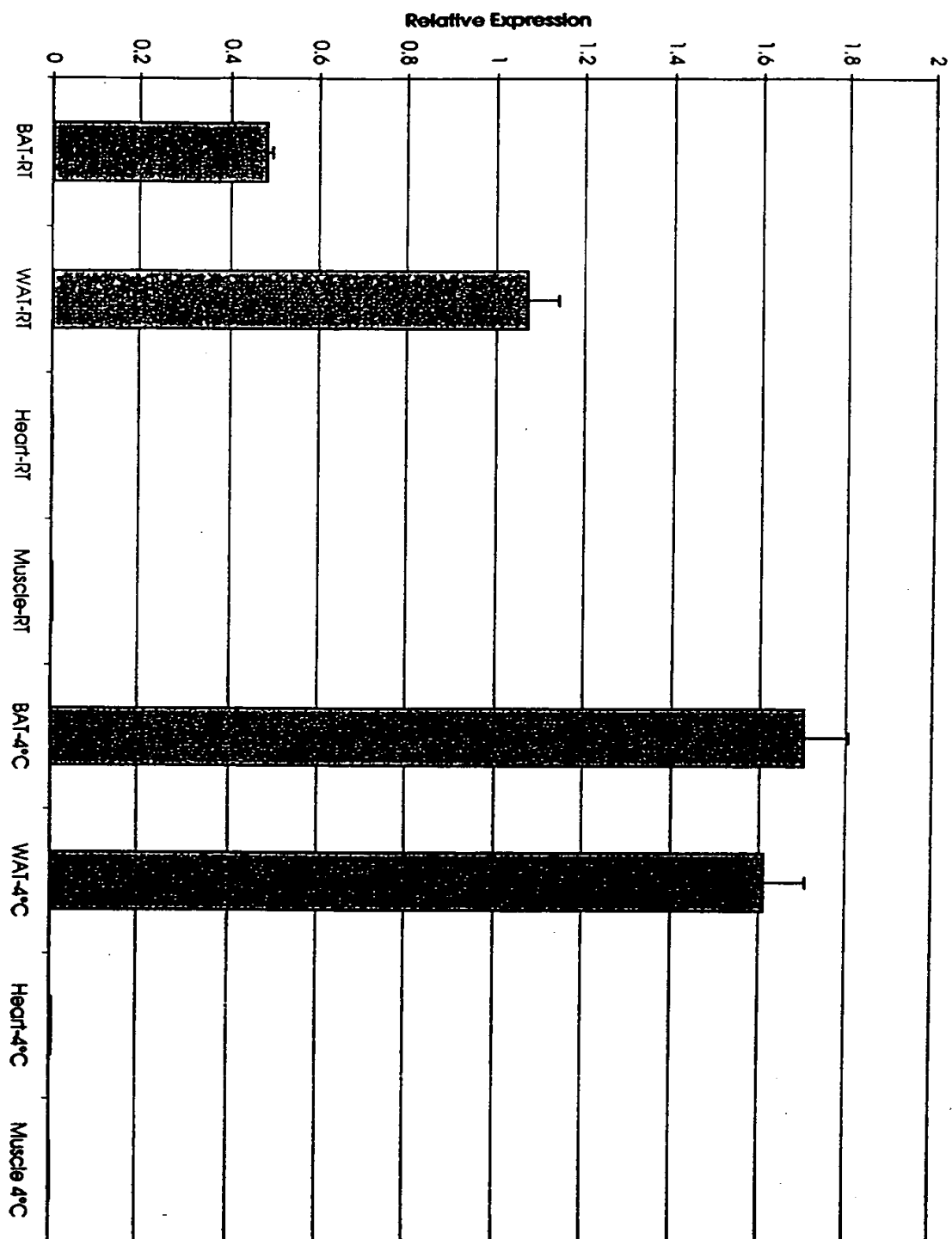


Figure 6A

## Regulation of 14273 Expression in Genetic Models of Obesity

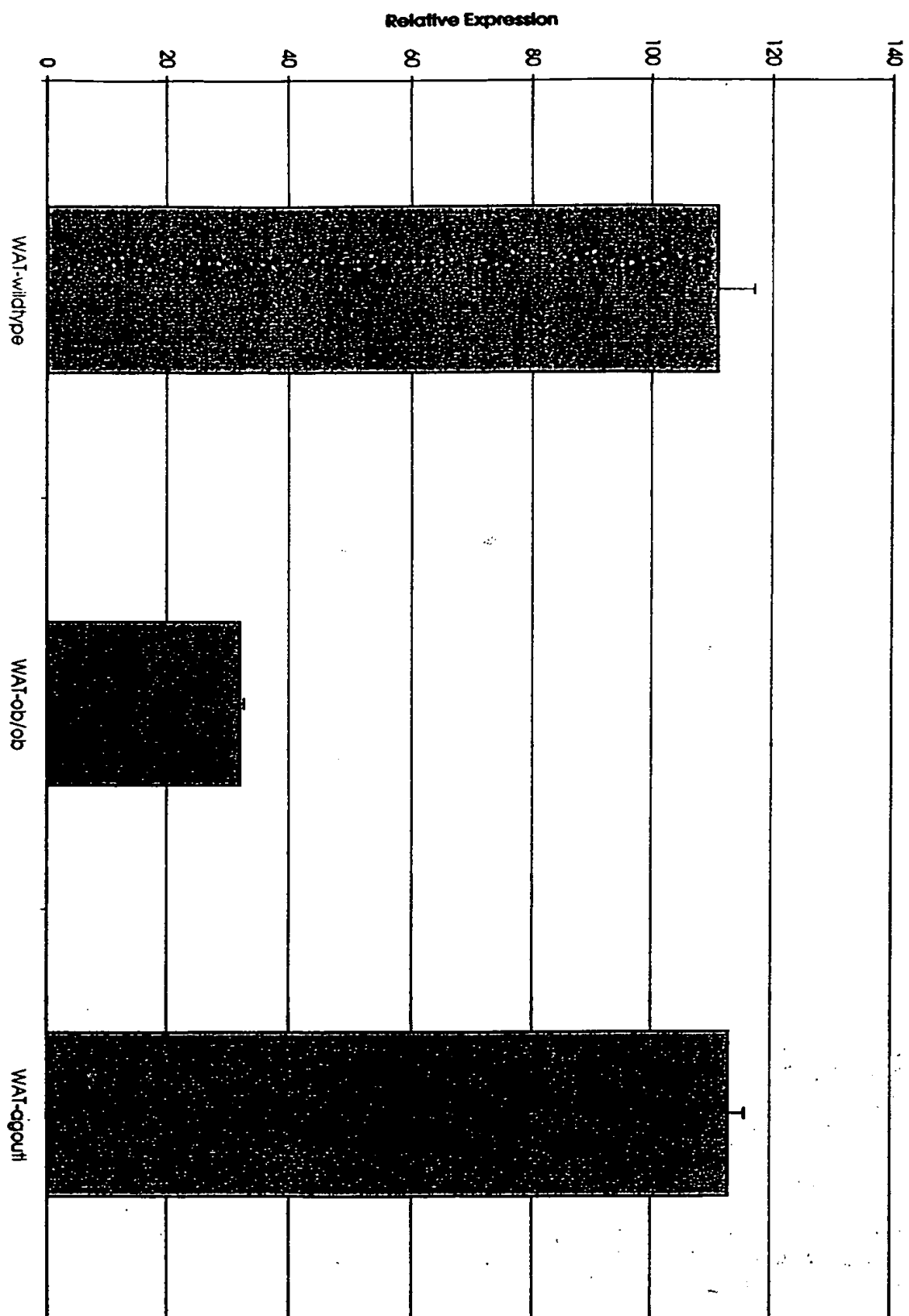


Figure 6 B

# BW on High Fat Diet (male)

Body weight increase of 14273 on high fat diet  
(male)

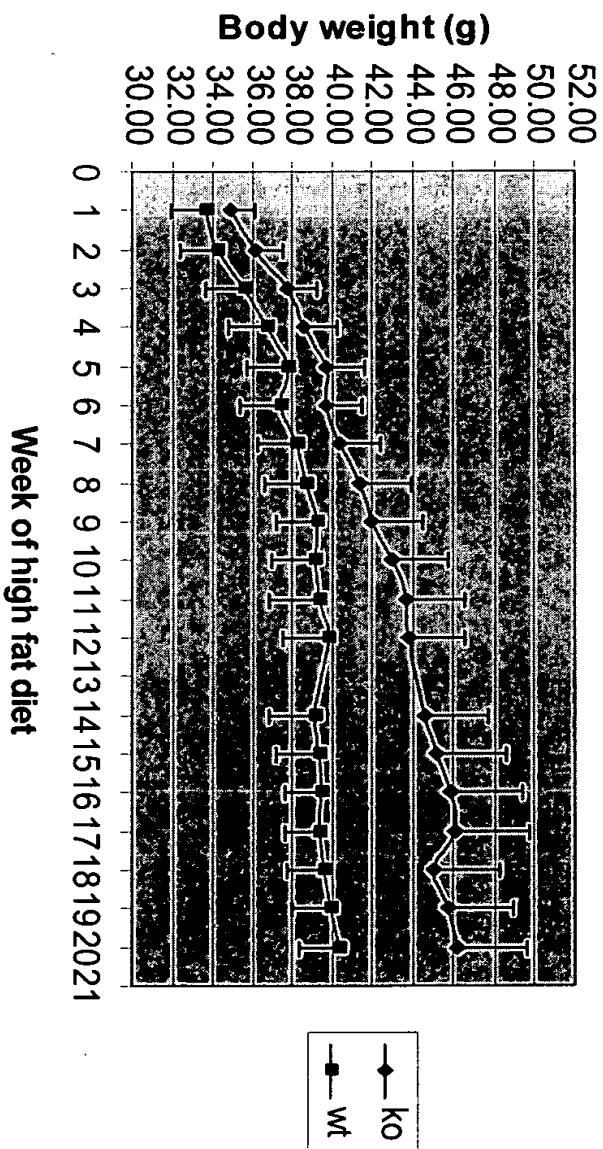


FIGURE 7